

VERSION OF AMENDMENTS SHOWING MARKINGS

In the Specification

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Figure 1 ~~1A~~ is an exploded view of the ~~limit switch with an alerter~~

Figure 1B is an exploded view of the limit switch

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Figure 1 ~~1B~~ shows an exploded view of a limit switch 10. Limit switch 10 includes a base 11 for securing to a mount or the like. Base 11 carries a square shaped housing 12 having a chamber 13 therein. Housing 12 contains a set of snap latches 12a located on opposite sides for releasable securing a cover 65 thereto. Each of snap latches 12a include a fastener 12c for securing the snap latch 12a to the housing 12. Located around the top peripheral region of housing 12 is a lip 12b that forms a shoulder for supporting cover 65 thereon. Base 11, housing 12 and cover 65 are preferable made from a polymer plastic or the like.

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Figure 1 ~~1B~~ shows a centrally positioned cam shaft 40 rotationally supported in housing 12. Located on cam shaft 40 is a cam latch 40a for removably securing a cam 55 thereon. Cam 55 includes a cross shaped slot 55a for mechanical engagement with cam shaft 40 to permit the cam shaft 55 to rotate the cam 55. Located on one side of cam 55 is a cam lobe 55b and on the other side is a cam lobe 55c. In assembly of cam shaft 40 and cam 55 the cam 55 is slid longitudinally downward along shaft 40, which forces the cantilevered resilient latch 40a

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The lower end of cam shaft 40 includes an end 40b for engaging with a device that connects to the system being monitored. For example, cam shaft end 40b can be connected to the pivot member on a butterfly type valve in a pneumatic conveying system to cause the cam shaft 40 to rotate as the

butterfly valve is opened or closed. The top end 40c of cam shaft 40 engages a dome shaped visual indicator 60 as shown in Figure 1A. Dome shape indicator 60 includes a female receptacle (not shown) that mechanically connects to cam shaft 40 to cause the indicator 60 to rotate as the cam shaft 40 rotates. The dome shaped indicator 60 includes a first peripheral region 60a with a first readable visual message such as "CLOSED" and a second peripheral region 60b with a second readable visual message such as "OPEN".

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Figure 2 shows the transparent member 75 and masking cover 70 can be secured directly to the top of cover 65 along the circumferential edge 65a on cover 65. This allows one to assemble the cover 65 and transparent member 75 as a unit to the housing 12. A set of four identical tabs 65b located on opposite sides (only two are shown) allow one to use snap latches 12a to secure the cover 65 to the unit to form a closed and protected limit switch with alerter (see ~~Figure 1~~Figures 1A and 1B). Thus a person positioned laterally of limit switch 10 can view the indicator 60 thorough the peripheral opening 70a in masking cover 70.

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cantilevered resiliently mounted roller arms 31a and 33b protrude outward from switch holder 30 and are in an operable position to engage the cam 55. In the position shown a cylindrical cam surface 55c is in contact engagement with roller arm 33b and the cam lobe 55 is in contact engagement with roller arm 31a. Additional cam lobes 55d and 55e provide for additional contact with the roller arms. As cam shaft 40 rotates the different cam lobes 55d and 55e are brought into contact with the roller arms on the switches 31 and 33 to bring the switches 31 and 33 to proper on or off condition. Thus, a feature of the invention is that a conventional electrical switch can be quickly inserted or removed from switch holder 30 by merely engaging or disengaging snap latch cover 30a which includes ears for engaging the peripheral lip extensions 30d on switch holder 30. In the embodiment shown switch holder 30 includes a base 30e that can be secured to extension

12e in housing 12 to allow for removal and replacement with few or no hand tools. (See Figure 1B).

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A further feature of the invention is the inclusion of an electrical terminal block holder 20 which is shown in Figure 1B.